


Find the key with Suesie on page 36
Top quality games to type
in for:
vic-20,
T1-99/4 A , spectrum, $2 \times 81$ and Dragon

Software reviews for: VIC-20, BBC, Oric, T1-99/4A, spectrum, Jupiter Ace, commodore 64, lynx, Dragon

Tips on programming your Atari

## C|RLS MICROS ARE FOR YOU, AS WELL

SOFTHARE companies and Thought it was a boy's subject and States as is is Pert. Science sub. texthers are Aghting to reawove the "boysoonly" tay from computing

Two now reports hightight the fale that few girls use computers, at horme or at school. And the sime applies io their mothers.

A survey by Aodits of Great Britain shaws that boys ase 13 times more likety than jeits to we the home computer. And just four percent of gefls and mazhers use thens.

ACaB's Peter Shell believes the imbalanee will fade as software more sulted to girls and women is produced.

And educanion adviker stam Steven has just producediatiport on stheots in Shefficid shich shows that for every mine boys onty one girl takes up comprating - ant improvemets on the 11 -toone ratio of imo yrars aye.

His education atsthority is go ing to the Equal Opportuntics Commisstore for exsta to firance a year-long ssudy in a primaty shool.

He said: "We propose 10 suxurate i peimary school with somputer cepuipment and hare a fulf=lime teather whe is kmouledgeable on computers io ensure that the opporfurities are evenly spread.
"We hope that by pesitive diverimination that we can produce courses whith are as हnteresting to piels as they are to boys."

Afr Steven, who thas his own Spertrum, said: "Boys tend to push girls out of the way - they take a fairly agztessive aratude.

If his authority's submission was swecessful, the EOC would pay the teacher's stlary and there would be a written repori circulsted.

He believed the problem was the same as with scence subjects and based on the atfitudes of parents, Job expentations and social backgraund. Parents
thosght is Masaboy subjeciand the better-patid jobs.
Mr Stesen said: "There are supposed io be 40,000 jobs is compsting but school leavers hancdaffernley finding where they ars."

Commodare's sortuare manaser Gail Wellinglon ssid she is tacking the problem wits more pogtaims dexgned is appeal to women and girls.
Mrs Welingion, who sames from Posion, said: "I dos't think the poblems is is severe in the

Slates as is is here. Scencte sub.
jexis are given short shifift in favour of mote classhal educa. dion, paricularly for women. Thefe are not, for example, as mandy wamen enginetrs.
"Compuring is a nalural for women as it meeds a rasional mind and hafuilion and is nof physicat. "We as sofrware thanufac wers have acglecied programs which would appesal to women. and espectally to fermite children.
"Having sad thas, I have a probleth trying to do something

Comtinutd on puge 3

It's the high speed computer phone link you have baen wailing for:
Transmits/recelves at 1,000 Baud: Three times the speed of most other acoustic moderns (including professionals).
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The Micro-Myte 60, in its sturdy moulded plastic housing, complements your home computer equipment.
\&Gge 2 HOME COMPUTING WEEKLY 26 July 1931


Continued from front page
difficent Proml uhamt tem-ur gatme. Whikh cumst first, lif cticken or the che?
"We are worting omproynum which are zat in lise trastiminal siolent masculiac imares. Wc
 lerfls Caschen and likere will be wone athers in the sarne comin ive met a fuifyliakl secouric.
 Tie had to sell the klen."
Mrs Wellongian, mamer at tho woik, turads a lsams of 12 felluical vial at Cossmurdere' slowglh hewdquatien - four ane 4nabict
National trativion whom focer tifmes as chary boysthan yitho take
 wiente.
(Glerk (alawa) is head of at ISO--papil tarkiky junch whowil at wall as a sroghamester fex educatiopal software homse A5k
She sold "thete nut whomel

 timie will bs spidt?
Heather lamoln, narner is Kathat sotware, auic "Therab Ahould sis): "ओ' illy scomputa an well.' Alise ali, the compute b ussalts boupht for the famil)
"The biegove time ports mus learn is not to be frefitanal ed compuico, flbey are lat as diffícull av they think
Siss 1 मmani, 22, ypok out her scheouldays: "Whes ( wax in the pllibyis clase there was auts nus and rewsealler pirt Andil was thic sithe will shemisiry.
"When I lime slatict in solio with a confulier lirm ther' was a lot af sximisem. Thes didal mat thusk I woukd lax long. I flen't think they thamyh wimico wats yuite is feet twatided if: quik the coutw.

## Cheoper graphies

Salamander has rut the price of its EDR. Graphites Packatge for the BBC B. The new prices are Ezo for thezape based veribul and E25 for the dix - a rediction of E5. 5 in encta case.
Owtress of the tape package com upgrade to dive for E1I 50 if they fetsrn their packnges to Salamunder
Siptathataler Seflmure, 17 Norfofk Rond, Bhightom, Eust Susken BN/ UAA

Nows5,7,8,10
VIS-20 prowrem ..... 11
Sive as from tite alions. ..... 14

Miere Tips ..... 17
Tidy so sout ithest Eikiot
Spactrum progrem ..... 19
Find the kent belorg the ghowd gest 13 yous
Softwawe review ..... 21

Atenil programming ..... 23

Dradon program ..... 24
Have zou got fat firgent?
2
VIc-2e software reviews
Ation gaims mowhut
Ti-99/aA program ..... 2
Vinctive doy
Software reviows ..... 31

Berstsellers ..... 33
Profile: Dipitell Fantensid. ..... 34
tichind the scenci
Spectrum program ..... 35
Your key so k cybourd conspiows
software reviews ..... 38
Advoisum whi Ork, Spetiema, Dragog
Letters ..... 41
$2 \times 81$ protraim ..... 42
Resuc ibe dund from the apc

| Active Bafoum: <br> Paul : ifengs Anhliant Idilur: Cafidue Covedwan Druifner Bryan Pindiflard Mantaclan Esilum Ren Harto |  |
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| Argus Specialist Pablications Lud.Its Charing Cross Rowd, London WC2H OEF, D1.437 ton) |  |
| Homer Caraputing Werily io pobl Sulet and Chyribvious fal, 1244 ALhtaster Prowmern \& Sgies ldob arymanmiby MM Driss asd R | al co Terstars Diwiberies by Argut Pront <br>  <br>  M5 Ctarieg CrowRd lowion WCiHOE: |

FREE SPlECTRL W CATALOGE:
34 pages of Spectrim beod. Cal 34 mours
Lave mere a warcis thaty 01-75 344
SOFTWARE SUPERMARKET

## Microdrives

 revealedSinclair's microdrlves, due out sopn, wilt run endless loop fapt certridges corting under 55 each

As the long-awaited liunch approtiches, sotware companies are precaring to market mphlsticated progroms mak Ing uter of the $3 \%$ teet accersy time and up to 100 K of storage.

Microdrives themsolven will cost thout C 40 , and up to alght can be tinked. Ufort will also neod an iniortecs wnit, it around E30, which wils atfer networking as well as the industry stondard PS-232 Interface which lets other peripherals work with the Spuctrum

It will, townver, be some months balore these now products are la the thops Sinclair Rossarch's managing diverctor Nigal Seasho wate thay would first ba olfared to customers on thin company'umailing list.

And when the liit was exhousted the first batchite for shop sale will probably go to W. M.Smith.

The wedjo-shaped $2 X$ interlace 1 fits undor tha Spectrum, titing if forward.
The Microdrives are simitar to the units which hewe sopparsed in Sinctitr adverts, and measure 3 in in by 3 in by 2 in.

And the tepe certridges ave 1\% in by one and en elohth inches by just thrse sixteenths of on inch. The tape inside is futt ovar 174 tong and a alktermith of an inch wide.
Stewart Binnle, merchandiso controller for W.H.Smith, said, We are very excited abourt the product and we will certainly take the butk of sales, But we don't yet know when to expect them.

Alrasdy add-on makers are ensiously trying to pat samples of the Mlcrodtives to sem how thoy can link them to other besb-selling computers:

## HAVE YOU BEE INVOLVED IN A

 MYSTERIOUS ADVENTURE RECERTIY? $2 \times 91$, LYNX otc
 (5.arch and defopment work


 you -an, resistance is futile".
If you hayo a BBC Computer or ; Fanimsidinany of the following doseges:

1) THE EQLDEN BATON
a) THE UI T MACHINE
(8) AFBOWOFDEATH (PART 1)

Q ARETOMOU
5 ISGAPE FROMRULSARI

- ncus


9) 
10) 




## oURBENGECFRBAITM

## NEWS

## Finger on the button

Following 扣 the sinematic footsteps is Tron is Wargames，a Film ubvat a bry cornputer getius who finds himseff trying to stop the coultdown io a global the monuclear war．Ath there yos were worrying about RAM pack wobble

David Iightman，thagames Itert，is a failure at whoof．Biat when he sils down at the keyboard，．he can change hes shotal grades，and theal the thone company，

Ony day he happensto key mit the US Air Forec Command Cen Ire computer，onfy to firsd thal world destruction ts mminent． Cans the wim his chitling mes ngainst lime？

The ulsuer is probably yes But you san make surs when Wargankes－directed by ithe man who made Saturday Night Feres －apens in t．ovdan on Augth 18．at the leficester Square Odeon．If yout lae chu of Lom－ dish，you＇ll hate to hasy on for the nationwide release mine weeks later．

Alternatively，you sau read the Intm of the book，fushed suot by Penkuin and Puffin to evionside with the launch．Dexcribed as a ＂haifbiting foved＂twant？${ }^{2}$ sup． possed fas be about compaters？），（0 costs L1，7s for the Penguin ur． for youthger readers，the Pastion coste［1．83
Pergedin Bonks， 536 Ahers Rocel， Lomidon SH $/ 00 \mathrm{OLH}$

## spectrums： 4 in court

Four people，mstodine a techage girl gind boy，have fased manistrates fiflowitn a Warchouse rand which netted Spectrums werth $£ 390,000$ ．

They face sharges of handling tolen properly abd all were remanded to $m$ firither bewring． iwo of then in custody．
The robbery tork place there weeks agoal the TNT warehouve， on lise Crantorsl Lune Industrial Esate，Hornsey，and the com－ puters belonged is the disiritus－ thent conlyany，Prish．

A girl car drawer，with a male passenger，raked a crash to lure the sceurity guard imd the estate manager from the warehouse then two other raiders appeared urnecd with a shotgun and han－ dgum．
The car drove off at high speed is the rest of the gurs trapped the iner men ins the back of a lorry and loaded up awd other TNT hrries with computers，mosily 48K Speyrams in bexes of to，plux ZX\＆Is and some soltware．
Later 13 Spectrums．a $2 \times 81$ and a single puswer prach were found，fuined，in the Thamer－


One wity to shrlve yoar micru

## Computer cabiret

It must be a skign of the temes． Peosice used to have cooktail cabinets－now the cabinets house computers instead．

Marcol Truding has designod a sabinet to hold mos enly yous compuler，tape tecorder and printer，but your video recorder as well，on two shelves which stide out to form a lesk and sbide bark when you don＇t need thens．

Underneath，there＇s storage space for essentiak like cassettes． books，lustings．joyticks attel copies of Mome Computing Weckly．

The cabinet has a genuine feak－ effect linish，and arrives packed flat－you bolt in rogether yourself．It costs C 95 including delivery．
Marcol， 8 Bugle Sireer． Southumptor SOl a－l

## Computer competition

Bluy a tub of ice treany and wirs computers and software．Bug Bylc，Lyons Maid asd Condon Biets freezer centres have tot together to ren a vompetation of－ feting a Spectrums，ZX81，soft－ ware and nine ofher prines，Clos－ ing date is August 15 ．


STCARZXII STCLAR DFFETTE 2016KRAWP40 SPECTMU 16 SPECTRUV 45 K OFCI 2 BK －SOPTVAR TRACON 32 K BEC＇每16x Bec－ 3 VIC ZOSTAशTERPACK VCC20IER RAW VIC2032 R R M COMNODO故 64 K ATAPIVCS CONSOLE ATAR 400 NO M BKO ATAR180048K

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MICROCOMPUTER：
MMIINVIE



## Newest - is it really always best?

As time goes by, I grow move and mone convinced that the microcomputer indusiry has gone mod.

Almosf every week now you hear of incrediote new micros ber ing launched, or "coming soon" and, to the comps-freak, it doesn't reolly maiter that every time he rings the despurich department he is told his computer will be coming next week, and mext whek, and nexl werk because if is new.

Newt New' Newt The advertiving mants magic word! if something is new, some peor idiot is sure to buy it. Computers are now the latesf craze, like skateboards, decty-boppers and the rext, and if's aulte Iticty thor fowrth-formin for Btorges want if comppubtr jusy becouse his bent friend har one, nor berwse he trints io further his horizons.

If would be extremely difficult for anjone to make a movie sotinting the homp comppute industry beccuse th's doing wery wall sotifising itself. The lifters page of otmost eny home compurting manczint com be found bugeine with intters prating the vithes of the $2 X Y$ Gerge-Blaster ow the $4 B C$ Dingbat. Fwiporeeads on the mags proctatm to the world that the Zappo 2 computer has a fhey
 the herrers aren'? even on the keya they onfonte fo ond where the ec. tuoi keys resemble individual modars from a ser of false teeth, but if's still beftrr show tme ROYGRIV mkre which hat a keybrand which froels like ded livches.

You may wolk itfo your howl broneh of Cherchams and find out that ihe solteppopie know abow as much abow thatichares at the Noonderthaf Mon, and will iell yon obmust enything for thei' commbsion. Whatewer happlened so quality?

Almodr weyy rulew has nirgis ebour colow whict ripples alonts the edfes of the screm and charwsters which make you sion-
 sound command is istudd, or the computer with a CIRCL.E command thot dinaws a wols, of the cesserte interfocer thet gives momech thowhthe.
in the fock to prodict newer, berighter, mone cotourful and notrier mknos, quality has been semmething that gers in the widy.

In the future, perhaps, people will sdy that thene was a saping: brikd o belfer moustrop end the worid wifl come floching to your door. But in the mid' 'Ois the phrase is "Wrue ebeller Pucmon, and the worid will come flocking to your door " where are the reolly oniginal soffyarr itecs?
 New if is necersorly befler ihan en oider computer, Thow owined the sampe compuler for the tors three yeloss. I'I a Micnoves of sustemt, and allough now the compony that makes it has chenged form Tolserine io Mitrotanic, the Micrefer Ammaint forgaty the soukt as If did three years ato when if toa was new. My Microter will fort me quite some years yer, becruseit was made wifh quality and wersotifiy in mind.

Afy Mifrotian may look a fittle aldd and grey besides today's brast cheap 'n' checeffulfobs, wul on old Rolh Royte for Bemily, ar Jaguogl is befter than o brond new Mini. VI newicolour end sound then all thove to do as buy a Doerd and phis it in, ond the cowstit isterface is ammingly reliabit.

My Old Foithfut will prokably outlest the Spectinum or the Orh, it we gor hi-res grophis shan would shame the BEC micro and, unilke sompe fhungrs which have in-buit obsolacence, wy old compurfr cem and does aftow for she funere.

Newett, if dicidedy not aiways Dos, and hr takes of the in


## Amthow Johen show inerl

## Freeltane writer

Bemsley, Yorks


The incwathbt shinialidat cescrette recorder

## Cenry on recording

You can rake portability a stage further with Olympur's new Pearlsorder Cloo. mictocassette recorder specially designed for home computers.
The C100 measures abour $51 / 2$ in by 2 is in by 1 in , and weighs 10.2 ounces inclading hatteries. It will also rus off the mains with an optional udaptor.
Features of particular interest to somputer owners are a cape

## sinciair is Innceent

Perthaps wicro firms are mending thein ways, The tatest butch of complainis recelved by the Advertisins Standards Authority included only Imo that related to the home computer indusiry and one of shose proved to be unjustified.
Sinchitr Research, which has been pulled up by the authotity five times over the past year, was the innocent party this time. The authority got a complaint about and for the 16 K Spectrum which sadd thal "you can recurs fi later for an upgrade".

A man complained then he had
counter, im past button, and a phase reverse control.
As well as 60 min and 90 min micro cesserles, you can buy a special 30 min micro cassettes, though ${ }^{5} 1 \mathrm{f} 1,20$ it's'more pricey than standerd-sized computer casseltes.

If you want to use the C100 for voice recordint, there's a slower speed avwilhble which gives you twice is much recording lime on each cassette.
The C100 costs $250-55$.
Oiympus, $2-8$ Honduras Sireet. London ECIYOTK
sent his 16K Spectrum back to be upgraded only 10 find that the service wasn't yet available. But the suthority agreed with Sinclair that the ad what not misleading.

Bul Control Technoloty, of Hyde, Cheshire, was saught out when es suslomer somplained about ils nd for 16 K RAM pack for the ZXBI.
The ad said the pack included a program to predict the results of horse races and fociball pools but the program had nothing to do with foolball, and dida't have much to do with horse racing either. The program is no longer being adveritsed.
Advertising Scundards Authorily, Brook House, Torrington Ploce, London WCIE 7HN

## ORIC GAMES PACK

## includes

I 1.ANDFR safely land your lunar spacecraft 2 BREAKOUT knock out the bricks lo gain points 3 NTM Play the traditional game against Oric

All three games for anly $\mathbf{E} 4.95$ (Inc. P\& P P Send Cheque/P,O. to SHARDS SOFTWARE 189 ETON ROAD, ILFORD, ESSEX IGI ZUO


## We wetcome programs articies and tips from our readers．

PROGRAMS should，If possible，be computer
printed to a width of 48 characterl suse a
new ribbon）and／or sent on cassette．Check
carefully that they are bug－free．include
detalh of what your program does，how it
works，variables you have used and hints on
converslon．
articles on using home computers shouid be no longer than 2,000 words．Don＇t worry about your writing ablity－Just try to keep to the style in HCW．Artices most Hkely to be pubilshed will help our readers make better use of their micros by giving useful ldeas， possibly with programining examples，we will convert any sketched illustrations into finhed artwork．

> TIPS are short articies，and brief programming routines which we can put together with others．Your hints can aid other computer users．

## Competitive rates are paid．

Keep a copy of your submistions and include an SAE if you want them returned．Label everything ciearly and glve a daytime and nome phone mumber if you can．
Paui Liptrot，Home Computing weekly， 145 Charing Cross Road，London WC2H ote

## NEWS

## FIfth for fast movers

Your Spectrum can work out your bark balance and mowe spatse invaders round the sereen －$m$ the sume time．

Thal＇s the claim made by 15－year－old Richard Taylor，a Suffotk schoolboy，who has writ－ ten a prograth called Fifth．

It is due out in abour six weeks from CRL al about C10，ins－ ctuding a 16,400 －word manuel．

Richard wrote CRL＇s Hi－Res praphics program for the ZX81．

Talking abous his lates gro－ fram，he said：＂To write fast movine games BASIC＇s no good and machine code is too hard and takes too long for mos people．
＂Everyone will want Firth because they can gen fass－moving rughies with to fuss．
＂It gives the Specinam the power of parallet processing．My program could work out so－ meone＇s bank balance while moving aboul a bunch of space invaders．＂

Awtording to CRL．Atchard＇s programadds 25 rew commands． ineluding GET，REPIACE， FUT，LARGE，SOUND，LET， ERASE，MOVE snd RMOVE Ii is said to have ISS speeds． 16 movement vectors and call pro－ doce charactets or sprites of up to 22 by 32

Firh，cheekily tited afier the sa－called fifth gemeration of com－ puteth，is interrapt driven，to allowing apparent dual process－ ing－

Clement Chambers．CRL＇s youthful managise director，said he had offered Richard a job for when he contpletes his educalion．

Ms Chambers said he would like Richard now to create a speciel BASIC for the Spectruts to make fames programming simpier．
－CRL is sponsorine fous leenagers who ime buildint a micro－mouse 10 take parl in a Europe－wide competition in Mladrid in Seplember．
CRL． 140 Whirechapel Rend． Lemdon EI

## Commodore＇s prices fall

Commodore has now officially announced the long－expected price cut for the Commodore 64 ， The cull is effective from August I．and al the same time，prices of peripherals，memory expansion and pames cartidges fall．

The 64 comes down to $£ 229$ Irom E343，though Commodore expects thel some retail chains will be selling it for even less than that，Single floppy dise drives will cost the same－1hey currentily COst $£ 300$
Far the VIC，3K of RAM will drop to C20 from［30，茷 will be 230 instend of $E 50$ ，and 16 K wit be E40 inslead of $£ 75$ ．

新碞 the most dramatic reduc－ tion is on gamer carridiges．From Augura they will be hulved to £． 10 insiced of C 20 upwardक．
Comithodore， 675 Ajax Avenue． Slowgh，Berks

## Learning coes home

Lombmar has already broupht out a range of micro sol ware for use in schools．Now it has put its head together with Micromege to bring out these educational pros gramb which you can use at home．They＇se all for the Spec－ trum，and are mean for shitdren aged four to eight．

A，b，c．．＋liff off encourages children to match words te pic－ tures by lodding up a spuceship 10 Venus，Objents cins only be load－ ed if they correspond to a word on the screet．When the spaceship is full，it takel off．

Countahoul teaches addition and subiraction－get the answeri yight and a monkey climbs a tree．

And in The Hot Dat Spotter you count the dots 10 attop a boll before it cand drop to the boltom of the screen．

The protrame cont 57.95 each． Langhan，Burmt Mitl，Harlow， Esser CM20 2JE

## Spectrum joins up with Micronet

Four motrins after the launch of Mieromet，the lew－ros videocek service for home computer users， －Microner gidaglor has been developed for the Spectrurn．

It＂s hard－wired modem，calied the Prism VTX 5000 ，which Jits under the Spectrums and connects in tirectly to the phone via a jack plags．

As well as acuing as a modem． the VTX 5000 offers Exira reatures．［t attows full Prestel graphics to be crealedi，and frames to be printed out using the

Sinclair printer．
The VTX $\$ 000$ itself cosis 4100，and lirss supplies will ga io Spectrum owners who have already sent in enquitites to Alicronet，fin siddition，the jeck plug conrectiont（which must be carried out by British Telecom） cosis 525.
But for the firss couple of mon－ the al leasi，yout can lake advisn－ lase of a special affer of free jack plue insialtation．
Micrunted B00，Durrant Hause， 8 Merbol Mhf，Landon ECl S／B


The latest Hat of beet aelling tillew drawn from our databost eowering natbinal trenla．

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| Shamus | E29．95 | Arcadia | C850 |
| Miner 20＇48er | E2996 | Krazy Komp | Es 30 |
| Preppie | ？ 21.99 | 30 Combetzant | CA\％ |
| 20．6． |  | MEC 8 |  |
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| Gridrunnar | E．50 | Trader | $\underline{595}$ |
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## Calleaf for thetala de beer seclern lor the

 Dragon，Orie und lynxFurton movig aew products throwh Sotwant Cutriw．Two remariable program for home and burtwet ues，areated for

Drogon and Corrmodore 64，You too eth Dury＇t Try them by completing the order form on the coupon

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A far and leerble epteed aheet progrom providing whet if lormilu veriaticusee obtarnt and lirn

## Datalase SC at 10.8

Powerful databses manogement program covering 12 bildin and giving An exitutive Hlectronic filing sybiem capwaily with thomd 260 records par field，celculation within athd between recorda and wilhin ranges．

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## Getting the bird

In Terror-Daktili 4D. Melbourne House's latest game for the 48K Spectrum, you're stranded in an alien land. Can you last out the six days until you'te rescued, or will the ferocious Terror-Daktils get you first?

The progran user 3D praphics the fourth dimension is turnel. and what stelbourne House describes as "a chillingly conspelling theme tune". It was writien by Alan Blake, whe said: "1 wanted the game to gomp out of the screen ${ }^{4}$

The game took thim five monsits to complete.

Alan's advice on playing Terror-Daktio is: "Try to keep alive for the first day at leass it you're looking for a high score. II should be possible to soote it multion, but if you get berween 10,000 and 20,000, I'd say you're doing exremely well.
Price: 16.95. Look out for 8 teview of the game in al futare

## computer centro opens in Mert

Hemel Hemputad now has a new computer shop. Called The Hemel Computer Centre. in is selling Atari, Commodore, $\mathrm{Tl}_{1}$ Sharp and Dragon home micros. plus a range of software and peripherals.
Later on, it may move into business micros.

According to one of the direetors, Steven McBride, good service will be the letynote of the new store.
He sald) *We know that inicrocompulers are now available from many of the chain stores. But we feel our strength lien in the facs that we are a specialist shop. What the knowledge and experience to provide a more comprehenste service to the customer,"

The Centre plans 10 offer servise not only for its own machines, but those sold by othet deakers is the ares.
The Hemel Computer Centre, 52 High Sinet, Hemel Hempsread, Heris

## Put your micro in a space station

Itappired by the dlight of the Challenger space shutsie, Microage has calted tis computer desk the Space Station.

H's got space for printers, diec. drives, a monitor, and cassettes, as well as for your micro, and is finished in tasteful ieak vinyt. It costs E 50 .
Mictoage has also brought out a computer-compatible casserse


Ahan Blake
issuc of Home Compulan Week. by
Afellowme Hoass, bilebe cor rage, Gilebe House, Statan Road, Cheddington, Leighton Hucturd, Beds LU7 7NA

## Touchsensitive Issue?

This week's prize for the most bizarre way of modifyill the 2X81's keybourd must go to The Pmprover, a small piece of cardboard which, its makers claim, coables you to raise an afea over each key to give positive feedback when the key is pressed.
The Improver is basically a stencil which you stick to the 81's keyboard. Usingitas a guide, you then draw a circle aver each key with a ballpen, which apparently causes the encircled area to bulge unpwards slightly.

Whether it works of not we can's yes tell you - it only arrived in the office ihis morning. Evenif in does, fZ seems outrageously expensive for a smali piece of cardboard.

But interessed parties should procesd with caution - Ihere's a possibility that using the device on your keyboard could invalidare the gutarantee. Mcouilien, Penrhos, GIjw Circie, Kinmet Bay, Rhyl

## VIC-20 PROGRAM



## VIE－20 PROGRAM

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ITMM REXT RETUMN



## GOFTWARE REVIEWS

# Scaley monsters 

## Androids, zombies, vultures your opponents in these games are not a pretty sight. Do the games look better than the monsters? Our reviewers tell you what they thought

## Androlds spectrum $\varepsilon 5.95$

Surshine Booky Hobhouse ( ourl 19) Whetumb bireet I ur. Jow W: 2 가
Androldstis mantergume tr whoth you tul down endless cortulors 0 liud afoex t, orking Andronds Whe fire al \% \%ivi if wilu pel til their line of sighti ulless you dhonll and Jestroy them "igyt

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## critters

## VIC + 8K £5.99

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## centropods

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## zombles and potholes supiter ace plus 261

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##  COT NOWRELEASES FORDRAGON 32 FROM



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## NOW AVALABEEFROM M/H.SMTH

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Locate the secret island hideaway of the mysterlous meglomaniac Dr. Death. Follow his trail across continents, through complex puzzles, coded messages and 3-D mazes. Discover the entrance to his underground lalr - but beware - even with your death-defying gadgets his evil henchmen may stll ลit win the dayl
 take some tlme-so we've Inciuded a 'save' routine for part-time secret agents!
Credft Card Hotilne


DEALER ENQUIRIES WELCOME - GENEROUS DISCOUNTS

# Keeping it all together 

## Tidy up your messy micro with these do-it-yourself projects from Vic Rogers

The adverlisemests ror hums compulers never show all the wr ng nifd paraphernala that forms part and parcet of the whoie syster
W. th the tIC 20 for exam Dre, there is a cable to the casazte recorder. another to the ransformez and pius and yat another to the moduator and awav to the TY

An inportanl consaderation when buying my VIC was the cducationa value it whutd have for my two youne daughters Howewer, on usint it the fierst few turies II woon benatie ciear that wome Idyying up of the dends woukd heve to take platere to ivord a Jısाnter

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The recorder stits on top and
 occuped by a perspex meqnu hoidet puncthed from the kitcher I have found this ideal for keep. ing magazines and insinuthon manuals in just the correct post Ism to read from while keying in

Alihough not shown if the photo, the TY can sit on the fop of the moduie however, I find it too close to the keyboutd for eye combry

The module has been in we for abous a year and been wert aseful $M$ ne is painted in chocerate to coniesasl with the VIC's cream - very thic! The colous and danetasums coutd
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# Trapped! <br> Find the keys before the ghost gets a taste for you 

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gobbling fruit you have to find keys to unlock the door. But beware of the ghost, says William Mitchell who wrote the program for 16K or 48K spectrum




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## SOFTWARE REVIEWS

## Getting it figured

## These programs are designed to make learning maths and geometry child＇s play

## Numerons 48K Lymx $E 5.99$


Numerons ta one of the fist ppis the game with es dss and hagh




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## Happy math <br> 



## Shape Up vic－20 plus 16K E8．95

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## FOR FIRST TIIMEUSERS...

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The feat im inberally eupported by mill manner of usolut didgrems and illustrathont (inctuding many black and whit photographe of the seroen) The overath presthitainon faracellerf. The printing, setting oul and dsings are chear and postlvely ifruite the reader to naw a go"

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Pan 22 HOME COMPUTIWG WEFKLY 26 July Ig

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## Don't panic - it's simple to Interrupt

## More programming advice from our Atari expert Marc Freebury. Here he shows how to use the Vertical Blank Interrupt


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## DRAGON PROGRAM

## You＇ll need fast fingers to squash the red columns

Wy origunal game for the Dragon uwolves maving a green square around the streen 10 squath down columns of red squares sum an up trumt the bentiom
 wolumns of red squarts depen durg on the lenel of disflusis） sclected，but more sppester al regalar intervals until there are le alt
The pande ta a bit like piale spot－18－you have fo kecp
 to keep Ihem all under control

The protitur）is whtiten eft tely in BAsIC，but is foirly tas in 30w－restutam graphes ere und for ilie mall purt of the ganae

The routine to move the prest square uics krybonrd Plitikn， Inix meass the square will keep moving an lung 齐 you keep yous finger on the appruntiale key，but you must mathe sure you exleax edeh key before preavig the skex or the chanige of diretins wather rew wer
l：ath sucways mbive isurahece bupares－from one red cotumn to the text－upwards movts tre all two sualeres，but the greer qquare moves only wne sequare at a tume downuards w that the red cotall ns are eraxd
II 19 passable to move sudeways om to the top scauate of a red column，but not through the mbdacs of ic

The sore depend it he ＂，anher of red willo an at ins ＊renen，so it goes up stowly al first then increasesfapidly as the game progresses There is a huph－score

[^1]
## Electro looks simple but we reckon lt＇s well－nigh impossible to beat．Type Margaret Norman＇s game into your Dragon and take up the challenge




How flentre limiko inn the Etren
lable routine an the end of the pratrim，whet sould casily be wlapted for wher garmes．

There is aleo a fitte sequerne－ truff lines are drawn at rerulime

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## DRAGON PROGRAN


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## TI-99/4A PROGRAM

## D5e your Tlto ncime che dedy

## You can stay one Jump atread with Alan Turntilif calendar program for the Tl-99/4A

[^3]

Key in my program and you can work out the day you wete boon on, or whal day Chrishman Eve will fall on un I59?

The program make we of sumple atrins-handloas lechaiques to produce a calendar for any month of any yens and in designed to be quich and enay to ase. II is tarly compact and uses only about $31 / 2 \mathrm{~K}$ of RAM when run

A trite screen asks the twer to INPUT the year and month ( $1-12$ ) tor wheh $n$ culendar is re quired. This screan is disphyed while decals of the cavendar for the given month are colculaled

The culctudar if pecpaged
 the daies 1-31 held int M5 and rays which hold detalk of the names of the months (MON THS(X) fod the aumber of dyy in each month (MLEN(X)

Ones calunialog is com plece, the screen is cleared and a calendar display screen is generated. MS is then trad vo a short "print al" subroutine to doplay the detes on the screen

An unteresting feature of thus progran for begnaness lies in the use of the keys tor the lop of the TI's keyboard for PROC'D (ASCII code 12, key functions 6) and BACK (ASCII code 15, kts) function 9). These funclions allaw the use of the progran to seloct the cauctidar for the montin following or preceding 1ilat currently being displayed, respectively

Note, however, that these funtuons are software defined that is, thot operations is madie possible by program lines, in thrs casc lines $790-920$

In fact these funcuons could be assigned 10 any key on the con-

sole, with the exceppion of BREAK (fuactson 4) and CLEAR \{ [urcturn = ]

Set page 8-10 of the T1 Uset's Reference Guside and the 11 Blase Reference Card for furthe details of function key codes

When keying in ltnes 200 and 210, wote that the spaces lef bet ween the zumbers 131 arevital to ensure the cortece display of the calcndar There toust be three spaces betwean 1 and 2, two spaces between 10 and 11, and so on

By the way, the program is based on the Gregonan calendar - so it woa't work for dates before 1482.



## TMUKETSHOKE

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The proytum is resorded twince in the chasele, at fast and slow speeds. Despite severi attempls, the prograit falked to lows on the fast baud rate. At the slow rate the program bouled with several er. rars. These errors I had to cortret to elfow the gante to be inayed

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# Have a think on these 

## Here, for the thinking micro owner, are some games which claim to let you do just that. For our reviewers' thoughts on them, read on

## farmer TH-99/aA E3

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tow have $4 x$ sommands as your unspotal with whinst .0 dares the gatre the oblet libe bering to decturtulate $\$ 30.000$ Exith wommand used redues your rest and busseranse sol n sits wh the manker nust the fre. quently punctulat by mestroc-
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## Alrilne

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Colour. sound, and graphes are combined well to give you the toformetion you nex

However, the program it no down by tus limiled indrucInMs

Although there wats supposed to be an opluob to hey and sell arcreft, thes never appeared in the gannot i played

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So, for the business phudeat there is lintle shal matght be ielloul by playing this game, for those with Ittrle business knowledige, then the game will probably just confuse and inustrale fou

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## Games of the unexpected for the unatraid.

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| 3 | Talkung Andrord Atr | Mrerodea' 81 |
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| 5 | $\mathrm{N} / \mathrm{ght}+1 \mathrm{l} \mathrm{g}^{\text {h }}$ ) | Mrerodea 11 |
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## SPECTRUM PROGRAM

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## 2X81 PROTRAM

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# 'NOW WIN THE POOLS' 

THIS IS MEANT FOR YOU - ESPECLALLY IF YOU USE A SINCIAIR ZXS or SINCLAIR SPECTRUM COMPUTER, or mer ANY COMPUTER.
HAVE YOU EVER HAD THAT DREAM OR EVER WISHED THAT YOU HAD "WON ON THE POOLS" AT LAST YOU CAN TURN IT RNTO REALITY.

## THERE IS A SECRET OF "HOW TO WIN ON THE FOOTRALL POOLS" - TH CAN BE DONE, I DISCOVERED JHR SECRET A LONG TIME AGO - NOW, FOR THE FIRST TLME I'M PREPARED TO SHARE IT WITH YOU. <br> HOW DOES THIS INTEREST YOU - 1 HAVE DOCUMENTARY EVIDENCE BY WAY OF POOLS WINNINGS DIVIDEND SLIPSI CANCELLED CHEQUES, eṫ, SHOWING MY PRESENT WINS ON THE POOLS AS FOLLOWS:- <br>  765 <br> 1,818 <br> 2,942 1, 852 <br> 631 <br> 93 <br> A GRAND TOTAL OF 8,201 (EIGHT THOL'SAND, TTO HUNDRED AND ONE DTVIDENDS - w far). I HOLD TEE UNCHALLENGED WORLD'S RECORD FOR POOLS WINS

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THE METHIOD IS THE GREATEST TRERLP CHANCE WINNEX RN THE HISTORY OF FOOTBALLL PEOIS - IT WriL LLSE FOREVER - BOTSI FOR ENGLISH AND AUSTRALIAN FOOTBALL POOLS, ETTE EQUAL SLCCESS.

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 - FOOTBALL ENTERFRISES.

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